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NOTICE.

The next edition of the Directory will be an International, and it will be issued late in 1899. It is under advisement to make some radical changes in this edition. The work was originally intended for the use of Naturalists', those who had use for and wished to make exchanges. Chemists were first added and from time to time other branches. It is now proposed to exclude Mathematicians, Physicists, Astronomers, Electricians, Photographers, etc. and possibly to make a separate edition devoted to such departments of science as are not included in the Naturalists' Directory.

Opinions as to the advisability of the change are invited by the editor.

Information in regard to deaths or change of address of names in the present edition will be thankfully received by the editor.

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Directories

The Naturalists' Directory

CONTAINING THE NAMES, ADDRESSES, SPECIAL DEPARTMENTS OF STUDY, ETC., OF PROFESSIONAL AND AMATEUR NATURALISTS, CHEMISTS, PHYSICISTS, ASTRONOMERS, ETC., ETC.

OF THE UNITED STATES AND CANADA. COMPILED BY SAMUEL E. CASSINO, 1898.

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ABBREVIATIONS.

Acad., Academy.
Agric., Agriculture.
Ala., Alabama.
Am., American.
Anat., Anatomy.
Analyt., Analytical.
Anth., Anthropology.
Antiq., Antiquities.
Arach., Arachnida.
Arch., Archæology.
Ariz., Arizona.
Ark., Arkansas.
Ast., Astronomy.
Asst., Assistant.
B. C., British Columbia.
Biol., Biology.
Bot., Botany.
Bryol., Bryology.
C., Collection.
Calif., California.
Carab., Carabidæ.
Carb., Carboniferous.
Ceramb., Cerambycidæ.
Chem., Chemistry.
Cicind., Cicindelidæ.
Cin., Cincinnati.
Colo., Colorado.
Coleopt., Coleoptera.
Coll., College.
Comp., Comparative.
Con., Conchology.
Conn., or Ct., Connecticut.
Crypt., Cryptogamia.
Crystall., Crystallography.
Cur., Curator.
Cust., Custodian.
D. C., District of Columbia.
Del., Delaware.
Dept., Department.
Devon., Devonian.
Dipt., Diptera.
Dir., Director.
Dist., Distribution.
E. E., Electrical Engineer.
Econ., Economic.
Elect., Electricity.
Emb., Embryology.
Ent., Entomology.
Esp., Especially.
Eth., Ethnology.
Ethnog., Ethnography.
Ex., Exchange.
Fla., Florida.
Ga., Georgia.
Gen., General.
Geog., Geographical.
Geol., Geology.
Held., Helderberg.
Hemipt., Hemiptera.
Herpetol., Herpetology.
Histol., Histology.
Hist., History.
Hort., Horticulture.
Hymenopt., Hymenoptera.
Ia., Iowa.
Ichth., Ichthyology.
Ill., Illinois.
Ind., Indiana.
Invert., Invertebrates.
Inorg., Inorganic.
Inst., Institute.
Kan., Kansas.
Ky., Kentucky.
L., Lower.
La., Louisiana.
L. & F.W., Land and Fresh Water.
Lepid., Lepidoptera.
Lithol., Lithology.
M., Marine.
Mam., Mammalogy.
Man., Manitoba.
Mass., Massachusetts.

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Math., Mathematics.
Md., Maryland.
Me., Maine.
M. E., Mining Engineer.
Med., Medical.
Meteo., Meteorology.
Metall., Metallurgy.
Mic., Microscopy.
Mich., Michigan.
Min., Mineralogy.
Minn., Minnesota.
Miss., Mississippi.
Mo., Missouri.
Moll., Molluscs.
Mont., Montana.
Mus., Museum.
Nat. Hist., Natural History.
N. B., New Brunswick.
N. C., North Carolina.
N. D., North Dakota.
Neb., Nebraska.
Neuropt., Neuroptera.
Nev., Nevada.
N. H., New Hampshire.
Niag., Niagara.
N. J., New Jersey.
N. M., New Mexico.
N. Y., New York.
O., Ohio.
Obs., Observatory.
Ont., Ontario.
Ool., Oology.
Ophthal., Ophthalmology.
Ore., Oregon.
Org., Organic.
Orn., Ornithology.
Orthopt., Orthoptera.
Osteol., Osteology.
Palæo., Palæontology.
Pathol., Pathological.
Penn., Pennsylvania.
Phæn., Phænogams.
Philol., Philology.
Phil., Philosophy.
Photog., Photography
Phys., Physics.
Piscol., Piscology.
P. Q., Province Quebec.
Pres., President.
Prof., Professor.
R. I., Rhode Island.
S. C., South Carolina.
S. D., South Dakota.
Sec., Secretary.
Sci., Science.
Sil., Silurian.
So., Southern.
Soc., Society.
Spec., Species.
Spec., Specimens or specialty
Strat., Stratigraphical.
Surv., Survey.
Syst., Systematic.
Tax., Taxidermy.
Tech., Technical, Technology.
Tenn., Tennessee.
Tex., Texas.,
U., Upper.
Univ., University.
Va., Virginia.
Vasc., Vascular.
Veg., Vegetable.
Vert., Vertebrates.
Vt., Vermont.
Wis., Wisconsin.
W. T., Wyoming Territory.
W. Va., West Virginia.
Wash., Washington.
Zool., Zoology.

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THE

NATURALISTS' DIRECTORY.

UNITED STATES AND CANADA.

An asterisk (*) indicates that parties have been heard from since issue of last Directory. Names followed by a question mark (?) have not been heard from for three years and will be dropped from next edition.

1 Aaron, W., Peru, Ill. *Palæo., Geol., Arch., Lepid., Moll.* C.?
2 Abbe, Chas. H., San Juan, Calif. *Orn., Ool., Tax.* C. Ex.
3 Abbe, Cleveland, LL. D., Prof. Weather Bureau, Dept. of Agric., Washington, D. C. Editor Monthly Weather Review. *Meteo., Terrestrial Phys., Ast., Atmospheric Elect., Standard Time, Aeronautics; Solar Phys., Sky Colors, Math., Phys., Bibliog. of Meteo.**
4 Abbe, Cleveland, Jr., A. M., Johns Hopkins Univ., Baltimore, Md. *Physiog., Geol., Climatol.**
5 Abbe, Frank B., San Juan, San Benito Co., Calif. *Min., Ool., Geol., Con., Crystall.* C. Ex.*
6 Abbot, Frank, M. D., Dean and Prof. Dental Histol., Surgery and Therapeutics, N. Y. Coll. of Dentistry, 22 West 40th St., New York, N. Y. *Mic., Morphol., Emb., Histol. C.**
7 Abbott, C. C., M. D., Trenton, N. J., or Peabody Mus., Cambridge, Mass. *Local Arch., Local Zool.*
8 Abbott, E. K., M. D., Salinas, Monterey Co., Calif. *Bot.**
9 Abbott, J. F., Stanford Univ., Calif. *Emb., Nemertini.**
10 Achert, E. E., Denver, Colo. *Min.**
11 Acheson, Geo., M. A., M. B., M. C. P. S. O., Queens Sq., Galt, Ont., Canada. *Chem., Gen. Biol., Pathol.**
12 Acker, Henry P., 166 Benjamin St., Akron, Ohio. *Moll.* C. Ex.*
13 Adams, Carl D., B. Sc., Osawkie, Jefferow Co., Kans. *Hort., Ent.* C. Ex.
14 Adams, Charles C., 806 E. Empire St., Bloomington, Ill. *Odonata, Neuropt., Geog. Dist. Animals, Con.* C. Ex.
15 Adams, Miss E. Isadore, Park st., Roxbury, Mass. *Bot.*
16 Adams, Edw. P., C. E., 1039 Exchange Bldg., Boston, Mass. *Geol., Bot.**
17 Adams, Frank Dawson, McGill Univ., Montreal, Can. *Geol., Lith.**
18 Adams, Dr. Fred, B.S., Thor, Iowa. *Mound and Indian Relics, Geol.* Fresh Water Shells to exchange for old coins and fractional currency. C.*

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20 Adams, Sherman W., Hartford, Conn. *Bot.*, *Min.*, *Zool.**

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25 Adler, Dr. Cyrus, Librarian Smithsonian Institution, Washington, D. C.*

26 Adriance, John S., A. M., F. C. S., 321 Lexington Avenue, New York, N. Y. *Chem.**

27 Agard, Miss Sarah J., Teacher Latin and Sci., St. Catherine's School, 137 Western Ave., St. Paul, Minn. *Bot.*, *Phæn. Plants.* C. Ex.*

28 Agassiz, Alexander, Museum of Comp. Zool. at Harvard College, Cambridge, Mass. *Zool.*, *Geog. Dist.*, *Emb.*, *Thalassography.**

29 Ager, Miss J. E. W., Lyonsdale, N. Y. *Bot.*, *Chem.* C.

30 Aich, H., 96 Spring St., New York, N. Y. *Lepid.* C.?

31 Aiken, Charles E., Colorado Springs, Colo. *Orn.*, *Ool.*, *Mam.*, *Min.* C.*

32 Aiken, Walter H., College Hill, Ohio. *Bot.* C. Ex.*

33 Ainslie, Charles N., A.M., Rochester, Minn. *Mic.*, *Ent.* Correspondence invited. C. Ex.*

34 Aitchison, Clyde B., B. Sc., 115 Pearl St., Council Bluffs, Ia. *Chem.*, *Mic.*, *Gen. Biol.**

35 Aitken, R. G. Lick Obs., Mt. Hamilton, Calif. *Ast.**

36 Aiton, George B., A. M., State Inspector High Schools. 1601 University Ave., Minneapolis, Minn. *Bot.*, *Phæn. Plants.* C. Ex. for good specimens only.*

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44 Alderson, Victor C., F. G. S. A., Armour Inst. of Tech., Chicago, Ill., *Invert. Palæo., Geol., Min., Crystall., Lithol.* C. Ex.*
45 Aldrich, Chas., A. M., Historical Rooms, Capitol Building, Des Moines, Ia. *Palæo., Geol., Min., Bibliog., Arch., Eth., Orn., Tax.*
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47 Aldrich, John Jr., Box 127, Springfield, Mo. *Bot.* C.*
48 Aldrich, John D., 189 College Ave., Indianapolis, Ind. *Postage stamps.* Ex.*
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70 Allen, Harrison, 1933 Chestnut St., Phila., Pa. *Morph.*, *Anat.*, *Vert.*, *Anth.*, *Mam.*, *Myol.* C. of Bats. Ex.*
72 Allen, Joel A., Ph. D., Curator, Amer. Mus. Nat. Hist., 77th St. and 8th Ave., New York, N. Y. *Vert. Anat.*, *Mam.*, *Orn.*, *Herpetol.**
73 Allen, J. D., Taxidermist, Prop'r of Indian Bazar, Mandan, N. Dak. *Antlered Heads*, *Entire Animals*, *Birds*, *Dead Game*, *Sioux Relics.**
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75 Allen, John A., Buckfield, Oxford Co., Me. *Bot.*, *Chem. of Iron.**
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78 Allen, J. M., M.E., Pres. Hartford Steam Boiler Inspec. and Ins. Co., Hartford, Ct. *Mic.*, *Meteo.*, *Ast.*, *Lepid.*, *Coleopt.**
79 Allen, Mary E., M. D., 346 S. 16th St., Philadelphia, Pa.*
80 Allen, O. P., Palmer, Mass. *Bot.*, *Geol.*, *Ast.* C.*
81 Allen, Richard H., P. O. Box 43, Chatham, N. J. *Orn.* C.*
82 Allen, Prof. T. G., Armour Institute of Tech., Cor. 33d and Armour Ave., Chicago, Ill. *Chem.* C.*
83 Allen, Timothy F., M. D., 10 E. 36th St., New York, N. Y. *Bot: Characeæ.**
84 Allis, E. W., Adrian, Lenawee Co., Mich. *Ool.*, *Arch.*, *Econ. Ent.*, *Parasitism.**
85 Allis, James W., Rochester, N. Y. *Ent: Lepid.*, *Coleopt.*, *Con.* C.
86 Allison, Geo. P., 22 South Oxford St., Brooklyn, N. Y. *Min.*, *Birds Eggs.**
87 Allison, Henry, Ft. Worth, Tex. *Invert. Palæo.*, *Ent.* C. Ex.
88 Alter, M. H., 126 S. Spring St., Los Angeles, Calif. *Mic.?*
89 Alverson, A. H., San Bernardino, Calif. *Bot: Cacti*, *Min.* C. Ex.
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93 Ami, Henry M., M. A., D. Sc., F. G. S., (London, Switzerland and America), palæontologist, Geol. Surv. of Can., Ottawa, Ont., Canada. Editor. "Ottawa Naturalist." *Palæo.* C. Ex.*
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142 Aschman, F. T., Ph. B., 203 Water St., Pittsburg, Penn., Prof. of Chem., Pittsburg Coll. of Pharm. *Phæn., Min., Chem.* Ex.*
143 Ashby, Geo. E., 80 Pine St., New York City. *Mic., Min.*
144 Ashe, W. W., North Carolina Geol. Survey, Raleigh, N. C. *Forestry, Forest Bot., Crypt. Bot.* Ex. Phæn. and Crypt. specimens, particularly from the Southern U. S.*
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149 Atherton, Lewis, B. Sc., Ovid, Mich. *Chem., Anat.*
150 Atkins, Charles G., Bucksport, Me. *Hort., Ichth.**
151 Atkins, George, Ward St., Pittsburgh, Pa. *Orn., Tax.* C. Ex.?
152 Atkinson, Albert A., Prof. Phys. and Elect. Eng., Athens, Ohio. *Phys., Elect.**
153 Atkinson, Archer, M. D., 2101 Maryland Avenue, Baltimore, Md. *Chem., Mic., Zool., Anat., Histol.* C. Ex.*
154 Atkinson, Edwin C., Mineralogist, 112 S. 4th St., Phila., Pa. *Min.* C. Ex.*
155 Atkinson, Geo. F., Prof. Bot., Cornell Univ., Ithaca, N. Y. *Comp. Morph. and Emb., Fungi, Lichens, Algæ.* C. Ex.*
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159 Atwater, W. O., Prof. Chem., Wesleyan Univ., Middletown, Ct. *Chem.**
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163 Atwood, Horace, B. S., East Genoa, N. Y. *Bot., Phæn. Plants, Agric., Chem.**
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1960 Grout, Stephen, East Dorset, Vt. *Bot.* C. Ex.

1961 Gruber, Calvin L., M.E., Prof. State Normal School, Kutztown, Pa. *Phæn. Bot., Ferns, Trees and Shrubs, Woods, Ent.* C. Ex. Desires exchange of woods. C. of woods and insects.*

1962 Gruber, F., In charge of the Museum Nat. Hist., Golden Gate Park, San Francisco, Calif. *Gen. Zool., Ool.**

1963 Gruhlke, A. C., Waterloo, De Kalk, Ind. *Arch., Coins.* Will buy, sell or ex. Indian Relics, etc.

1964 Grundel, J. G., Alma, Santa Clara Co., Calif. *Ent., Lepid.* General Collector. Sell and Ex.*

1965 Guignard, J. A., B.A., Experimental Farm, Ottawa, Can. *Bot., Hymenopt.**

1966 Guilford, S. H., 1728 Chestnut St., Philadelphia, Pa. *Vert. Palæo., Geol., Min.* C. Ex.*

1967 Gurley, R. R., Asst. Physician, Worcester Lunatic Hospital, Worcester, Mass. *Palæo.*, (Graptolites), *Mic., Zool., Sporozoa.**

1968 Gurley, William F. E., State Geol., Danville, Ill. *Invert. Palæo.* Fossils to Ex.*

1969 Guve, Mrs. E. W. P., 1215 3d St., Seattle, Washington.

1970 Gwyn, Charles L., A.B., M.D., 2020 Market St., Galveston, Texas. *Moll., Spec. Marine products, Coast of Texas.* C. Ex.

1971 Haag, D. E., M.D., F.R.M.S., Toledo Medical Coll., 1121 Washington St., Toledo, Ohio. *Mic., Anat., Osteol., Histol.* C. Ex.*

1972 Haag, Harry P., Physician and Surgeon, Liberty Centre, Henry Co., O. *Mic., Anat., Histol.* C.

1973 Haanel, Prof. E., 405 University Place, Syracuse, N. Y. *Phys., Elect.*

1974 Haas, Rev. Geo. C. F., A.M., 64 Seventh St. New York City. *Mic., Photog.**

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1975 Haberer, Joseph V., M.D., Utica, N. Y. *Bot., Cyperaceæ, Ethnol., Anat., Osteol.* C. Rare Ex. in Bot.
1976 Hacker, Wm., Gen. Offices Penn. R. R. Co., Philadelphia, Pa. *Orn., Bot.* C. Ex.*
1977 Hadden, David E., Alta, Iowa. *Ast., Meteo., Chem.**
1978 Hadley, Elza E., Stuart, Ia. *Palæo., Geol.* C. Ex.
1979 Hagemann, John, Houston, Texas. *Min., Chem., Metall., Phys.* C.
1980 Hagen, J. G., S.J., Georgetown Coll., Washington, D. C. *Ast.**
1981 Haggard, David A., B.S., 1310 G St., Lincoln, Neb. *Mammals, Orn., Tax., Ent., Lepid., Coleopt., Orthopt., Bird skins.*
1982 Hague, Arnold, U. S. Geol. Surv., Washington, D. C. *Geol., Lithol.**
1983 Hague, James D., Mining Engineer, 18 Wall St., New York, N. Y. *Geol., Mining Engineering.**
1984 Hahn, Rud. C., 65 Nassau St., New York, N. Y. Importer of Precious Stones. Specimens in Agate, Crocidolite, etc.*
1985 Hailes, Wm., M. D., 197 Hamilton St., Albany, N. Y.
1986 Haimbach, Frank, 1309 Allegheny Ave., Phila., Pa. *Ent., Lepid., Coleopt.* C. Ex.*
1987 Haines, Reuben, 201 So. 5th St., Philadelphia, Pa. *Chem., Min., Ent., Lepid., Coleopt.*?
1988 Hains, Ben., New Albany, Ind. *Geol.* Cave Formation and Photography. C.*
1989 Hake, E. G., M.D., New Cumberland, Cumberland Co., P *Bot., Biol., Geol., Mic., Photog.**
1990 Halberstadt, Baird, Pottsville, Pa. *Statistics of Coal Production, Coal Mining, Geol.*?
1991 Hale, Albert C., Ph. D., 551 Putnam Ave., Brooklyn, N. Y. *Chem., Metall., Phys. Photog.* C.*
1992 Hale, Prof., George E., Yerkes Observatory, Williams Bay, Wis. *Chem., Phys., Photog., Ast.* C.*
1993 Hale, Horatio, Clinton, Ont., Can. *Anth., Arch., Ethnog., Philol.*
1994 Hale, John P., M.D., Charleston, Kanawha Co., W. Va. *Ethnog., Ethnol., Arch.**
1995 Hales, Henry, Ridgewood, Bergen Co., N. J. *Arch., Orn.* Prehistoric N. M. Pottery. C. Am. Warblers. Ex.*
1996 Haley, Ernest L., Rangeley, Me. *Orn., Ool., Tax.* C. Ex.
1997 Hall, A., Naturalist and Tax., Lakewood, Ohio. C. Ex.*
1998 Hall, Asa F., Hudson, Mass. *Min., Geol.* C. Ex.*
1999 Hall, Prof. Asaph, 2715 N. St. Washington, D. C.*
2000 Hall, Asaph, Jr., Prof. Asst., Univ. of Mich., Detroit Obs., Ann Arbor, Mich. *Ast.**
2001 Hall, Chas. M., Niagara Falls, N. Y. Inventor of the Hall process for manufacturing aluminum.*
2002 Hall, C. W., Dean of the Coll. Eng., Met. and Mech. Arts,

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Prof. Geol. and Min., Univ. Minn., Ass't U. S. Geologist, 803 University Ave. So., Minneapolis, Minn. *Geol., Min., Lithol.* C. Ex.*

2003 Hall, D. K., Rutland, Vt. *Geol., Min.* C. Ex.

2004 Hall, Edwin B., Wellsville, Allegany Co., N. Y. Fossil reticulate sponges a specialty.

2005 Hall, Edwin H., Gorham St., Cambridge, Mass. *Phys.**

2006 Hall, G. Stanley, Prof. Psychology, Worcester, Mass.*

2007 Hall, H. M., 399 First St., Riverside, Calif. *Phæn. Plants, Orn., Mammals.**

2008 Hall, James, State Geologist and Palæontologist, Albany, N. Y. *Stratigraphical and Physical Geology and Palæontology, Invert.* C. Ex.*

2009 Hall, Lyman B., Ph.D., Haverford Coll., Haverford, Montgomery Co., Pa. *Chem.**

2010 Hall, Prof. Robert W., New York Univ., University Heights, 24th Ward, New York, N. Y. *Analyt. Chem.**

2011 Hall, T. Proctor, Ph.D., Minturn, Colo.*

2012 Hall, Victor J., Microscopist and Chemist, Carpinteria, Calif. *Diatoms., Gen. Biol., Arach.* C. Ex.*

2013 Hallenbeck, Orlando J., M.D., Canandaigua, N. Y. *Mic., Anat., Histol.**

2014 Hallet, Edwin S., M. Sc., Borden, Ind. *Bot., Mic., Zool.* C.?

2015 Hallock, A. P., Ph.D., 440 First Ave., New York, N. Y.*

2016 Hallock, Chas., Pioneer Press Bldg., St. Paul, Minn. *Physics., Gen. Biol., Geog. Dist., Ichth.**

2017 Hallock, Wm., Columbia Univ., New York, N. Y. *Phys., Sound.*

2018 Hallowell, Susan M., Prof. Bot., Wellesley Coll., Wellesley, Mass.*

2019 Halsted, Byron D., Rutgers College, New Brunswick, N. J. *Crypt. Bot., Fungi, Hort., Weeds, Weed Seeds.*

2020 Halsted, Geo. B., Prof. Math., Univ. of Texas, 2407 Guadalupe St., Austin, Texas. *Crystall., Phys., Ast.**

2021 Halsted, Geo. B., Austin, Texas. *Bibliog., Anth., Arch.**

2022 Halsted, J. Henry, Rye, N. Y. *Bot., Ool., Lepid.* C. Ex.*

2023 Ham, Oliver H., 283 Capitol Ave., Hartford, Ct. *Bot: Phæn. Plants, Ferns, Mosses, Diatoms., Mic., Photog., Min.* C.*

2024 Hamaker, Dr. J. I., Trinity Coll., Durham, N. C.

2025 Hambach, G., M.D., Prof. Washington Univ., 1319 Lami St., St. Louis, Mo. *Palæo., Bot.* C. Ex.*

2026 Hamblin, Floyd, Mohawk, N. Y. *Min., Geol., Arch., Numis.* C. for sale.*

2027 Hamblin, H. H., Mohawk, Herkimer Co., N. Y. *Ferns, Mosses, Fungi, Lichens, Algæ, Ent.* C. Ex.*

2028 Hamburger, Aaron, North Wales, Pa. *Min., Crystall., Chem., Metall.* C. Ex.?

2029 Hamel, Thomas E., M.A., F.R.S.C., Prof. Faculty of Arts, Laval Univ., Quebec, Can. *Nat. Phil.**

2030 Hamil, Alex., M.D., Baldwinsville, N. Y. *Arch.* C. Ex.*

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2031 Hamilton, Edwin H., Petersburg, Ill. *Arch.*, *Numis.*?
2032 Hamilton, Hugh, M.Sc., M.D., 212 S. 2d St., Harrisburgh, Pa. *Chem.*, *Geol.* C.*
2033 Hamilton, Wm. R., A.B., M.D., 28 Ninth St., Pittsburg, Pa. *Bot.*, *Geol.*, *Biol.*, *Zool.*, *Orn.*, *Herpet.*, *Ichth.*
2034 Howland, O. A., M.P.P., Chairman Hist. and Arch. Section, Canadian Inst., Toronto, Canada.
2035 Hall, Charles L., St. Michael, Alaska. *Ent.*, *Ool.*, *Con.*, *Orn.* C. Ex.*
2036 Hamilton, S. Harbert, Eng. Chemist, Acad. Nat. Sci., Philadelphia, Pa. *Min.* Specimens determined and analyzed.*
2037 Hamlin, Augustus C., M.D., Bangor, Me. *Palæo.*, *Geol.*, *Min.*, *Crystall.*, *Chem.*, *Metall.*, *Arch.*, *Eth.* C.
2038 Hamlin, Geo. L., Bethel, Conn. *Orn.*, *Ool.*, *Tax.* C. Ex.
2039 Hammer, Wm. J., 26 Cortlandt St., New York, N. Y. *Physics*, *Elect.*
2040 Hammond, George W., Yarmouthville, Me. *Min.*, *Arch.* C. Ex.*
2041 Hammond, John Hays, Mining Geol., Crocker Bldg., San Francisco, Calif. *Strat. and Phys. Geol.*, *Min.*, *Lith.*, *Meteo.**
2042 Hampton, C. J., Junius, N. Y. *Algæ*, *Orn.*, *Min.*, *Moll.* C.
2043 Hampton, Henry R. Augusta, Ill. *Min.*, *Geol.* Ex.*
2044 Hampton, Wm. C., Mount Victory, Hardin Co., Ohio. *Bot.*, *Hort.*, *Palæo.*, *Geol.*, *Min.*, *Arch.*, *Orn.*, *Photog.* C. Ex.?
2045 Hampton, Wm. Huntley, Chem., M. E., Placer, Josephine Co., Oregon. *Historical Geol.*, *Min.*, *Crystall.*, *Lithol.*, *Chem.*, *Metall.*, *Physics.*, *Elect.*, *Hydraulic Mining.**
2046 Hampton, W. L., Augusta, Ill. *Min.*, *Geol.* Ex.*
2047 Hanaman, C. E., F.R.M.S., 103 First St., Troy, N. Y. *Biol.*, *Histol.* C.*
2048 Hancock, Dr. Joseph L., 3148 Indiana Ave., Chicago, Ill. *Orn.*, *Zool.*, *Ent.*, *Orthopt.*, Spec. of the tribe of Tettix (Tettigidæ) wanted from all parts of the world. C. Ex.*
2049 Hancock, J. Wm., 4 S. Howard St., Baltimore, Md. *Bot.*, *Min.*, *Anth.*, *Arch.*, *Eth.* C. Ex.
2050 Hancock, Wm. J., M.S., Prof. Chem. and Biol., Antioch Coll., Yellow Springs, Green Co., Ohio. *Bot.*, *Mic.* C. Ex.*
2051 Handwerk, J. H., 115-117 Jefferson St., Joliet, Ill. *Geol.*, *Min.*, *Moll.* C. Ex.*
2052 Hanham, A. W., care of Bank of British North America, Winnipeg, Manitoba, Canada. *Lepid.*, *Coleopt.*, *Moll.* C. Ex.
2053 Hanke, Henry C., Minneapolis, Minn.*
2054 Hankenson, E. L., Newark, Wayne Co., N. Y. *Bot.*, *Salices.* C.*
2055 Hankinson, Thos. L., Agric. Coll., Mich. *Orn.*, *Ent.* C.*
2056 Hanks, Henry G., F. G. S., 1124 Greenwich St., San Francisco, Calif. Ex.*
2057 Hannum, Frank A., Easthampton, Mass. *Orn.*, *Ool.*, *Bot.* C.?

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2058 Hansen, Geo., Scenic Tract, Berkeley, Cal. Issues "Exsiccatæ of the Flora of the Sequoia gigantea Region," 1500 numbers. Represented in 16 Universities. Monographs "The Orchid Hybrids," issuing supplements annually.*

2059 Hapeman, H., M.D., Minden, Kearney Co., Neb. *Phæn.* C. Ex.*

2060 Haradon, Roland S., 265 Tulip St., Brooklyn, N. Y. *Mosses, Crystall., Photog., Mammals, Orn., Lepid.*?

2061 Harbison, W. F., Spencerville, Allen Co., Ohio. *Arch., Geol., Moll., Palæo.* C. Ex.*

2062 Harbron, George, Hamilton, Ohio. *Orn., Tax.* Ex.*

2063 Hardaway, Robert A., A.M., C.E., Prof. of Civil and Mining Engineering, Univ. of Ala., Tuscaloosa, Ala. *Engineering.*

2064 Harden, Edw. B., M.E., 3201 Baring St., Philadelphia, Pa. *Struct. Geol., Relief maps, Inorg. Chem., Photog.**

2065 Harden, John H., M.E., Phœnixville, Pa. *Expert in Mining Eng.* C. Ex.*

2066 Harden, Oliver B., Topographical Engineer, 140 Sixth Ave., New York, N. Y.*

2067 Hardin, M. B., Prof. of Chem., Clemson Agric. Coll., Chief Chemist of Coll. and Agric. Expr. Station, Clemson College P. O., S. C., *Chem., Min.**

2068 Hardin, Robert A., M.D., Savannah, Tenn. *Mic., Zool., Gen. Biol.* C. Ex.?

2069 Hardman, John E., S.B., M.E., 1018 Sherbrooke St., Montreal, Can. *Phys. Geol., Min., Lithol., Metall.* C.*

2070 Hardy, Isaac B., 327 Victory St., Santa Barbara, Calif. *Mollusks.* C. Ex.

2071 Hardy, Manly, Brewer, Me. *Orn.* C.*

2072 Hare, A. W., M.E., Box 381, Aspen, Colo. *Inorg. Chem., Metall.**

2073 Hare, R. Fred, Las Cruces, New Mexico. *Gen. and Analyt. Chem.**

2074 Hare, Sid. J., C.E., Supt. and Landscape Gardener, Forest Hill Cemetery, Kansas City, Mo. *Palæo., Bot.* C. Ex. Aquatic plants. Desires notes and photos. of N. A. Trees and Shrubs.*

2075 Haren, Wm. A., 1326 Hickory St., St. Louis, Mo. *Mic., Ast., Phys., Photog.**

2076 Hargitt, Chas. W., Ph.D., Prof. Biol., Syracuse Univ., Syracuse, N. Y. *Gen. Biol., Morph., Emb.**

2077 Hargrave, C. A., Teacher Nat. Sci., Central Normal Coll., Memb. Am. Assoc. Conchologists, Danville, Ind. *L. and F. W. Shells, Unionidæ a Specialty.* C. Ex.*

2078 Harkness, H. W., M.D., Pres. Calif. Academy of Science, San Francisco, Calif. *Mic., Fungi.* C.*

2079 Harkness, Prof. William, U. S. N., Naval Observ., Washington, D. C. *Phys., Ast.**

2080 Harnly, Henry J S.B., A.M., McPherson, Kans. *Bot.* C. Ex.*

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2081 Harper, George W., Principal Woodward High School, Cincinnati, Ohio. *Geol., Min., Palæo.* C. L. Sil. fossils and F. W. and L. Shells of Ohio, Ky. and Tenn. for Ex.*

2082 Harper, Thomas, Bellevue, Allegheny Co., Pa. *Eth., Arch., Nat. Hist.* C. Ex.*

2083 Harrer, Henry, Assistant, Allegheny Observatory, Allegheny, Pa. *Ast.**

2084 Harriman, James O., Amoskeag, N. H. *Bot., Arch.* C.

2085 Harrington, Bernard G., B.A., Ph.D., F.G.S., Prof. Chem. and Min., McGill Univ., 295 University St., Montreal, Canada.*

2086 Harrington, B. J., Prof. Chem. and Min., McGill Univ., Montreal, Can. *Min., Crystall., Chem.* C. Ex.*

2087 Harrington, Charles, M.D., Harvard Med. School, Boylston St., Boston, Mass. *Orn.*?

2088 Harrington, Henry H., Prof. Chem., A. and M. Coll. of Texas, Chemist to Exper. Station, College Station, Brazos Co., Texas. *Geol., Min., Org. and Inorg. Chem., Met.**

2089 Harrington, Mark W., Pres. Univ. of Wash., Seattle, Wash. *Geog., Meteo.*

2090 Harrington, Nathan R., Biol. Dept., Columbia College, New York City. *Morph.**

2091 Harrington, Mark W., Weather Bureau, Washington, D. C.?

2092 Harris, Edwin E., M.D., Elliott, Iowa.

2093 Harris, Geo. H., 27 Pleasant St., Beverly, Mass. C. Ex. Foreign and Native *Lepid.* bought and sold.

2094 Harris, Gilbert D., Asst. Prof. Palæo., Cornell Univ., Ithaca, N. Y. *Invert. Palæo.* C.

2095 Harris, Ira F., Nashua, N. H. *Min., Birds.* C.*

2096 Harris, Israel H., Waynesville, Warren Co., Ohio. *Geol., Palæo., Min., Arch., Anth.* C. Ex.

2097 Harris, Robert W., New Albany, Ind. *Bot., Orn., Mic.**

2098 Harris, Thos. C., Raleigh, N. C. *Phys., Elect., Eng., Photog.**

2099 Harris, Wm. C., Utica, N. Y. *Orn., Ool.*

2100 Harrison, Edwin, B.S., 520 Olive St., St. Louis, Mo. *Geol., Metall.**

2101 Harrison, F. C., B.S.A., A.A., Guelph, Ont., Can. *Bot., Fungi, Mic., Bacteriol.*

2102 Harshbarger, W. A., Instructor in Math., Washburn Coll., Topeka, Kansas.*

2103 Harshberger, John W., Ph.D., Univ. of Pa., 737 Corinthian Ave., Phila., Pa. *Bot., Fungi, Geog. Dist.* C.*

2104 Hart, Charles A., Univ. of Ill., Urbana, Ill. *Ent.* C.*

2105 Hart, Dr. C. P., Wyoming, Ohio. *Neurologist and Electro-Therapeutist.**

2106 Hart, Edward, Ph.D., Prof. of Chem., Easton, Pa. *Chem.**

2107 Hart, Francis R., F.R.G.S., Ames Building, Boston, Mass., Bot. spec. Fibrous Plants (particularly Tropical). *Phys., Elect., Photog.* C. of Fibres. Ex.*

2108 Hart, J. Wm., Clemson College, S. C. Dairy Husbandry.*

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2109 Hart, Mary Elizabeth, Prof. of Biol., Western College, Oxford, O. *Bot. esp. Crypt., Zool., Biol., Emb., Moll., Radiates, Protozoa.** Mosses and Fossils especially desired.*

2110 Hart, W. C., Mgn'r for S. A. Chase, dealer in Rocky Mt. Gems and Specimens, 108 Ruxton Ave., Manitou, Colo. *Min.**

2111 Hartwell, B. L., 1st Asst. Chem. Agric. Exper. Station, Kingston, R. I.*

2112 Hartwell, Samuel, Lincoln, Mass. *Hort.**

2113 Hartzell, J. C., Jr., M.S., B.L.M.G.S.W., M.O.S.A.S., & M.A.O.U., Prof. in charge Dept. Biol. and Min., Claflin Univ., State Agric. Coll. and Mech. Inst., Orangeburg, S. C. *Bot., Geol., Min., Lithol., Mic., Gen. Biol., Econ. Ent.* C.

2114 Harvey, F. L., Ph.D., Prof. Nat. Hist., Univ. of Maine, Bot. and Ent. for Expr. Station, Orono, Me. *Bot., Zool., Geol., Min.* Me. Insects and Cryptogams a spec. C. Ex.*

2115 Harvey, Nathan A., 2007 Hughitt Ave., West Superior, Wis. *Zool.* C.*

2116 Harvey, William, Bradford, Stark Co., Ill. *Bot.* C.?

2117 Harwood, Nahum, Leominster, Mass. *Geol., Min.* C.*

2118 Hasbrouck, Geo., Ravenna, O. *Elect., Arch., Histol.* C. Ex.*

2119 Hasencamp, O., M.D., cor. Cherry and Ontario Sts., Toledo, Ohio. *Elect., Photog., Mic.* C.*

2120 Haskins, Caryl D., Newton Centre, Mass. *Elect., Ent., Orn.* C. Ex.?

2121 Haslam, Rev. Geo. E., M.A., Lunenburg, N. S. *Bot., Geol., Zool.* C. Ex.

2122 Hasse, H. E., M.D., Soldiers' Home P. O., Los Angeles Co., Calif. *Lichens.* C. Ex.*

2123 Hassler, Ferdinand A., M.D., Ph.D., Santa Ana, Orange Co., Calif. *Phæn., Geog. Dist., Moll.* C.*

2124 Hatch, C. C., Taxidermist, Kenwood, N. Y. *Orn.* C.

2125 Hatch, Charles L., 202 Hart St., Brooklyn, N. Y. *Min.* C. Ex.*

2126 Hatch, Delos, Oakfield, Wis. *Orn.* C. Ex. birds' eggs and skins for same, and mins., shells, etc.*

2127 Hatch, Erwin S., Pipestone City, Minn. *Bot., Geol.**

2128 Hatch, James H., DD.S., 807 Sutter St., San Francisco, Calif. *Diatoms, Mic., Histol.**

2129 Hatch, K. H., Kenwood, Madison Co., N. Y. *Animals, Birds, Skeletons.* C. Ex.*

2130 Hatch, W. H., Oak Park, Ill. *Bot.* C. Ex.*

2131 Hathaway, H. S., Box 498, Providence, R. I. *Orn., Ool.* C. Ex. Desires to correspond with R. I. Ornithologists.*

2132 Hatmaker, Benj. J., Albion, N. Y. *Anth., Arch., Eth., Ethnog.*

2133 Hauchett, Geo. Tilden, S. B., Hackensack, N. J. *Phys., Elect., Mic., Photog.*

2134 Haupt, Herman, Jr., M.D., Ph.D., Armour Inst., Chicago, Ill. *Bot., Palæo., Geol., Min., Anth., Arch., Eth.* C. Ex.?

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2136 Hausen, J. F., Nat. Hist. Soc., 32 University St., Montreal, Canada. *Gen. Biol. esp. Ent., Coleopt.* C. Ex.?
2137 Havard, Valery, Surgeon U. S. Army, care of Surgeon General U. S. A., Washington, D. C. *Med. and Econ. Bot.**
2138 Hawkes, Wm. H., A.M., M.D., 734 17th St., N. W., Washington, D. C. *Philol., Arch., Anth.**
2139 Hawkins, Hiram B., Middletown, N. Y. *Min., Ent: Lepid.* C. Ex.
2140 Hawkins, James, 433 Winthrop Avenue, Chicago, Ill.*
2141 Hawley, A. H., Vineland, N. J. *Min., Orn., Ool., Tax.*?
2142 Hawley, Geo. D., 552 Flournay St., Chicago, Ill. *Palæo., Geol., Min., Ent.* C. Ex.*
2143 Haworth, Alphonso, Mayport, Fla. *Marine Shells.* C. Ex.
2144 Hay, George, M.D., 616 Penn. Ave., Pittsburg, Pa. *Min., Chem., Metall., Physics, Mic., Histol., Toxicol.*
2145 Hay, George U., M.A., F.R.S.C., St. John, N. B., Can. *Bot: Ferns, Fungi, Algæ.* C.*
2146 Hayden, Rev. Edwin Horace, M.A., Wilkes Barre, Pa. *Bibliog., Arch.* C. Ex.*
2147 Hayden, Everett, U.S.N., Sec. National Geog. Soc., 1517 H. St., N. W., Washington, D. C. *Marine Meteo., Geog.**
2148 Hayden, N. W., Windsor, Hartford Co., Ct. *Bot.* C.
2149 Hayes, Rev. Benj. F., D.D., Divinity School, Lewiston, Me. *Bot.**
2150 Hayes, C. W., Geol. Survey, Washington, D. C. *Geol., Chem.**
2151 Hayes, Geo. W., C.E., Ph.G., Prof. Chem., Penn. Chatauqua, Willow St., Lebanon, Pa. *Bot., Geol., Min., Chem., Physics, Meteo., Orn.**
2152 Hayes, Joseph A., Ph.G., 36 Platt St., New York City. *Bot., Min., Inorg. Chem., Metall., Noble Metals, Mic.*
2153 Hayes, Seth, B.Sc., 903 Ewing St., Fremont, Ohio. *Zool., Vert. Palæo., Vert. Anat., Gen. Biol., Osteol.* Ex.
2154 Hayne, Arnold, U. S. Geol. Surv., Washington, D. C. *Geol.*
2155 Hays, Willet M., Prof. of Agric., Vice-Chairman, and Agriculturist in Univ. of Minn., Exper. Station, St. Anthony Park, Minn. *Bot., Agric.**
2156 Hayt, H. W., Med. Elect., Lowville, N. Y. *Mam., Orn.* C. Ex.*
2157 Hayward, Harry, State College, Pa. *Mam.* C. Ex.
2158 Hayward, Roland, 40 State St., Boston, Mass. *Ent., Coleopt.* C. Ex.*
2159 Hayward, Wm. Eugene, Pana. Christian County, Ill. *Moll., Minerals.* C.*
2160 Hazard, John N., Peace Dale, R. I. *Analyt. Chem.*?
2161 Hazard, Willis P., M.A., West Chester, Chester Co., Pa. *Agric., Bibliog., Mammals, Orn.**
2162 Hazlewood, John, Fort Gratiot, Mich. *Orn., Ool., Tax.*
2163 Hazen, Henry Allen, A.M., Box 427, Washington, D. C. *Meteo., Elect., Ast.**

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2164 Hazen, Levi, West Hartford, Vt. *Min., Fossils.* C. Ex.*
2165 Hazzard, T. L., M.D., 56 Montgomery Ave., Allegheny, Pa. *Orn., Ool.* C. Local.
2166 Heath, Geo. F., M.D., Monroe, Mich. *Geol., Min., Mic.*
2167 Heath, H., Prof. Invert. Zool., Leland Stanford, Jr. Univ., Calif. *Marine Invert.*
2168 Heacock, E. H., M.S., High School, Topeka, Kansas. *Biol., Chem.**
2169 Heath, Samuel D., 259 Hancock St., Springfield, Mass. *Geol., Min.* C. Ex.*
2170 Heberlein, Max, Great Falls, Montana. *Min., Inorg. Chem., Metal.*
2171 Hecox, Laura J. F., Santa Cruz, Calif. *Con.* C.*
2172 Hedge, Fred'k H., Public Library, Lawrence, Mass. *Bot.*
2173 Hedges, Charles F., 144 St. John St., New Haven, Conn *Orn., Ool.* C. Ex.
2174 Hedley, Carl W., 505 Howard Ave., Buffalo, N. Y. *Ool.* C Ex.
2175 Hedley, W. Edgar, 554 Humboldt Parkway, Buffalo, N. Y. *Orn., Tax.* C. Ex.*
2176 Hendrick, John T., Georgetown, Coll., Washington, D. C. *Ast.**
2177 Heilprin, Angelo, Prof. Invert. Palæo., Acad. Nat. Sci., Pres. Geog. Club., Philadelphia, Pa.
2178 Heine, Edw. D., P.C., Natchez, Miss. *Min., Crystall., Chem., Metall., Phys.* C. Ex.
2179 Heinekew, Wm. P., New Brighton, Staten Island, N. Y., *Elect., Orn., Ool., Tax.* C. Ex.
2180 Heitkamp, A. F., Prof. Physics, Ast. and Physiol., St. Ignatius Coll., 413 West 12th st., Chicago, Ill.?
2181 Heitzmann, Dr. Carl, 39 W. 45th St., New York City, N. Y. *Biol., Mic., Dermatol.*
2182 Heitzmann, Louis, M. D., 110 E. 58th St., New York, N. Y. *Fungi., Mic., Gen. Biol., Morph., Hist.?*
2183 Hekton, Ludwig, M.D., A.B., Rush Med. Coll., Chicago, Ill.
2184 Heller, A. A., B.A. *Bot.* Desires spec. of genus *Kuhinstera.**
2185 Heller, Edmund, 196 Rubidoux Ave., Riverside, Calif. *Ool., Orn.* C. Ex.
2186 Heller, Louie R., 53 East 86th St., New York, N. Y. *Bot., Phœn. and Crypt. Plants, Algœ.* C. Ex.*
2187 Hemingway, Clarence E., M.D., 439 N. Oak Park Ave., Oak Park, Ill. *Emb., Hist., Zool., Gen. Biol., Geog. Dist., Morph., Path., Osteol.* C. Ex.*
2188 Hempel, Adolph, Havana, Ill. *Orn., Ool., Protozoa, Rotifera.*
2189 Hempl, George, Ph.D., Univ. of Mich., 95 E. University Ave., Ann Arbor, Mich. *Arch., Eth., Philol., Phonetics, Child-Study.**

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2190 Henchman, Annie P., 8 Frisbie Place, Cambridge, Mass. *Emb., Histol.**
2191 Henderson, Prof. L.F., Univ. of Idaho, Moscow, Idaho. *Bot.* Ex.*
2192 Henderson, John B., Jr., 16th St. and Florida Ave., Washington, D. C. *Gen. Con.* C. Ex.
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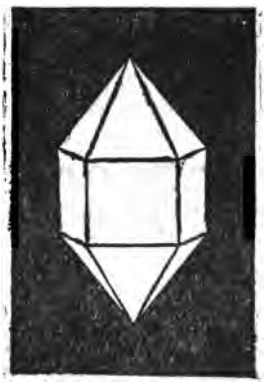

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